

Let  $X$  be the desired number, then

$$X = k e^x \epsilon_0^x m_e^{-2} m_p^{-1} c^y G^z \quad \dots(i)$$

Here  $k$  is a dimensionless constant and  $x, y, z$  and  $u$  are unknowns, whose value is to be obtained from the principle of homogeneity of dimensions. Now

$$[X] = M^0 L^0 T^1 Q^0$$

$$[e] = M^0 L^0 T^0 Q^1$$

$$[\epsilon_0] = M^{-1} L^{-3} T^2 Q$$

$$[C] = M^0 L T^{-1}$$

$$[G] = M^{-1} L^3 T^{-2}$$

Substituting dimensions of parameters involved in equation (i), we get

$$\begin{aligned} M^0 L^0 T^1 Q^0 &= Q^x [M^{-1} L^{-3} T^2 Q^2]^x M^{-2} M^{-1} (LT^{-1})^y (M^{-1} L^3 T^{-2})^z \\ &= M^{-x-3-z} L^{-3x+y+3z} T^{2x-y+2z} Q^{u+2x} \end{aligned}$$

From the principle of homogeneity of dimensions

$$-x-3-z = 0 \quad \dots(ii)$$

$$-3x+y+3z = 0 \quad \dots(iii)$$

$$2x-y-2z = 1 \quad \dots(iv)$$

$$u+2x = 0 \quad \dots(v)$$

Solving eqns. (ii), (iii), (iv) and (v), we get

$$u = +4, \quad x = -2, \quad y = -3, \quad z = -1$$

$$\therefore x = k e^4 \epsilon_0^{-2} m_e^{-2} m_p^{-1} c^{-3} G^{-1}$$

or, 
$$x = \frac{k e^4}{\epsilon_0^2 m_e^2 m_p c^3 G}$$

Experiments show that

$$k = \frac{1}{16 \pi^2}$$

Hence, 
$$x = \frac{e^4}{16 \pi^2 \epsilon_0^2 m_e^2 m_p c^3 G}$$

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**John S. Phillips, Cheryl Wistrom**



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